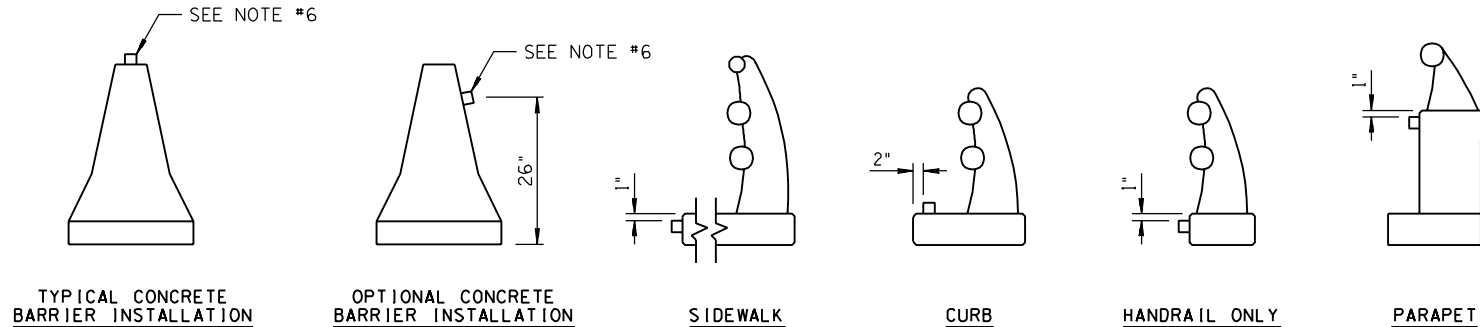
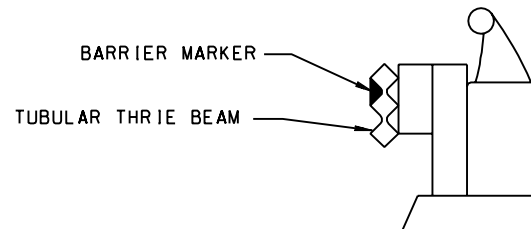


| NO. | DESCRIPTION OF REVISIONS | MADE BY | DATE |
|-----|-------------------------------|----------|------|
| 1 | DIMENSIONS AND TEXT REVISIONS | L. LOPEZ | 5/03 |
| 2 | | | |
| 3 | | | |
| 4 | | | |



CONCRETE BARRIER MARKER INSTALLATION



TUBULAR THRIE BEAM BARRIER MARKER INSTALLATION

NOTES:

1. MARKER SPACING SHALL BE 20 FT. ON CURVED SECTIONS AND RAMPs, AND 40 FT. ON TANGENT SECTIONS; HOWEVER, A MINIMUM OF THREE MARKERS SHALL BE CONTINUOUSLY VISIBLE. A MINIMUM OF THREE SHALL BE INSTALLED ON EACH BRIDGE OR CONCRETE BARRIER.
2. SINGLE FACE WHITE MARKERS SHALL BE USED ON BRIDGES AND CONCRETE BARRIERS, ON THE RIGHT SIDE OF ONE-WAY AND TWO-WAY ROADWAYS AND RAMPs.
3. SINGLE FACE YELLOW MARKERS SHALL BE USED ON THE LEFT SIDE OF ONE-WAY ROADWAYS AND RAMPs, OR TWO-WAY MEDIAN BARRIER SECTIONS (SUCH AS BARRIERS SEPERATING TWO SIDES OF FREEWAY BRIDGE).
4. ON SECTIONS OF SINGLE MEDIAN BARRIER, TWO SIDED YELLOW MARKERS SHALL BE USED ON BRIDGE AND CONCRETE BARRIER ON THE LEFT SIDE OF DIVIDED ROADWAYS.
5. MARKERS MAY BE INSTALLED ON THE SIDE OF CONCRETE BARRIER WHEN THE TOP SURFACE IS NOT WIDE ENOUGH TO ALLOW THEIR INSTALLATION ON THE TOP, OR WHEN THE TOP SURFACE IS TALLER THAN 42 INCHES (SUCH AS LOCATIONS WHERE BARRIER AND SOUND WALLS ARE COMBINED).
6. THE FRONT SURFACE OF MARKERS SHALL BE FACING ON-COMING TRAFFIC.
7. CONCRETE SURFACES SHALL BE WIRE BRUSHED OR SAND BLASTED, AND TREATED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
8. FOR TEMPORARY CONCRETE BARRIER DETAILS, SEE STD. DWG. C-3. BM-1 (WHITE), BM-2 (YELLOW) OR BM-3 (2 SIDED YELLOW) BARRIER MARKERS CONFORMING TO STD. DWG. M-32 SHALL BE INSTALLED AT 25 FT. SPACING. THE CONTRACTOR MAY INSTALL THE BARRIER MARKERS ON THE SIDE OF THE BARRIER IF THE MARKERS CANNOT BE INSTALLED ON THE TOP OF THE BARRIER. THE INSTALLED PRICE FOR THE MARKERS SHALL BE CONSIDERED PART OF THE BARRIER COST.
9. TUBULAR THRIE BEAM BARRIER MARKERS MAY BE USED ON GUARDRAIL WHEN SPECIFIED; HOWEVER, THEY DO NOT REPLACE DELINEATORS.

NOT TO SCALE

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| DESIGN APPROVED | ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION STANDARD DRAWINGS | REV. 5/03 |
| APPROVED FOR DISSEMINATION SIGNATURE ON FILE | BRIDGE AND BARRIER MARKER PLACEMENT AND INSTALLATION DETAILS | DRAWING NO. M-33 |